

Supplemental Materials 2: Dimensions and Materials of Plant Measuring Frame

This document describes how to construct the plant measuring frame used in SOP 3 to count milkweed and nectar plants. In 2016 US dollars, each frame cost approximately \$12 and 2 hours of time, to construct 1 frame including time for procuring materials. Measurements for individual pieces are adjacent to that piece, and are in black text. The desired internal space is 100 cm x 50 cm, measured from the center of the PVC pipe to the center of the opposing PVC pipe. All PVC is ½-in diameter. Length measurements are cutting lengths. Also needed are two metal rods (1/8 –3/8-in diameter; 60 cm long) that will function as cross bars. Holes for the cross bars must be drilled at 10.7 cm and 23 cm lengths from the end of two of the 46.5 cm long pipes to hold the bars. One end of each bar should be bent at a right angle to rest against the pipe when placed through the holes. These bars can be removed to allow a larger frame area for measuring. Velcro or small elastic bands can be used to keep the cross bars in place.

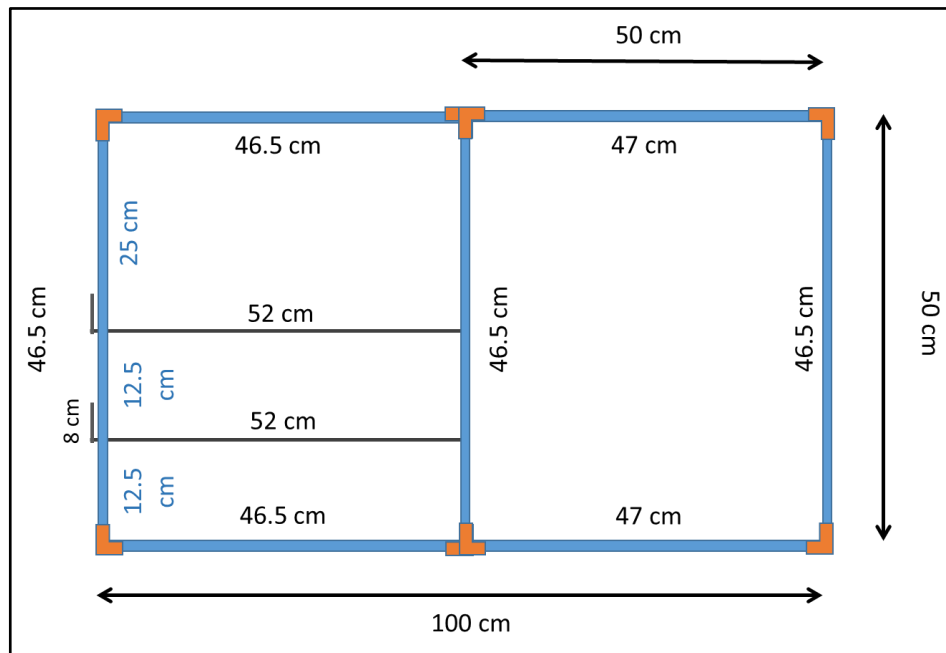


Figure SM-2.1. Dimensions of plant measuring frame used in SOP 3.

Table SM-2.1. Materials required for constructing the plant measuring frame.

Item	Quantity
46.5 cm lengths ½-in PVC pipe	5
47.0 cm lengths ½-in PVC pipe	2
60.0 cm lengths 1/8 to 3/8-in rod	2
90 degree elbows ½-in PVC pipe	4
T-joints ½-in PVC pipe	2
20 cm length Velcro or elastic straps	2
Saw (radial works best); drill	1